CLAIMS

- 1. A shape transferring cannula system comprising:
- a first rigidizing section;
- a steerable tip coupled to a distal end of said first rigidizing section;
- a second rigidizing section coupled to said first rigidizing section, wherein said second rigidizing section is parallel to said first rigidizing section; and
- a control mechanism coupled to said first rigidizing section and to said second rigidizing section for alternately advancing said first rigidizing section and said second rigidizing section.
- 2. The shape transferring cannula system of Claim 1, wherein said first rigidizing section surrounds said second rigidizing section.
- 3. The shape transferring cannula system of Claim 1, wherein said second rigidizing section surrounds said first rigidizing section.
- 4. The shape transferring cannula system of Claim 1, further comprising an accessory lumen contained within said first rigidizing section.
- 5. The shape transferring cannula system of Claim 1, further comprising an accessory lumen contained within said second rigidizing section.
- 6. The shape transferring cannula system of Claim 1, wherein said first rigidizing structure and said second rigidizing section are coaxial.
- 7. The shape transferring cannula system of Claim 1, wherein said first section and said second section are laterally parallel.
- 8. The shape transferring cannula system of Claim 1, wherein said second rigidizing section is a linkage sheath comprising:

two cable-guiding channels an equal radial distance from a central axis of said linkage sheath;

- a pulley at a distal end of said linkage sheath; and a cable wrapping around said pulley and residing in said two cable-guiding channels.
- 9. The shape transferring cannula system of Claim 8, wherein said pulley is positioned off-axis.
 - 10. A shape transferring cannula system comprising:
 - a first section;
- a second section laterally parallel to said first section and slidably coupled to said first section, wherein at least one of said first and second sections is a rigidizing section;
 - a steerable tip coupled to a distal end of said first section; and
- a control mechanism coupled to said first section and to said second section for alternately advancing said first section and said second section.
- 11. The shape transferring cannula system of Claim 10, further comprising an accessory lumen contained within said first section.
- 12. The shape transferring cannula system of Claim 10, further comprising an accessory lumen contained within said second section.
- 13. The shape transferring cannula system of Claim 10, wherein said first section is a rigidizing section.
- 14. The shape transferring cannula system of Claim 10, wherein said second section is a rigidizing section.
 - 15. The shape transferring cannula system of Claim 10, wherein said first section is a rigidizing section and said second section is a rigidizing section.

- 16. A shape transferring cannula system comprising:
- a first section;
- a rigidizing second section slidably coupled to and surrounding said first section;
- a steerable tip coupled to a distal end of one section; and a control mechanism coupled to said first section and to said second section for alternately advancing said first section and said second section.
- 17. The shape transferring cannula system of Claim 16, wherin a steerable tip is coupled to a distal end of said first section.